

L-systems and Turtle Graphics Slideshow Instructions

You will submit a slideshow with:

- Title Slide
- 2-5 slides describing L-systems and Turtle Graphics (with original examples)
 - <https://en.wikipedia.org/wiki/L-system>
 - https://en.wikipedia.org/wiki/Turtle_graphics
- A showcase of at least 10 striking, original, varied, and differently colored L-system patterns.
 - Next to each pattern (or on an adjacent slide), display the **key parameters**:
 - * Start string
 - * Replacement rules
 - * Number of iterations (the number of recursions)
 - * Angle (how much the turtle turns with each + or -)
 - Each pattern should also have a description. You can describe your process or what thoughts were evoked by the result.
- How to produce patterns?
 - Explore possible patterns with this tool helpful: <https://draemm.li/various/fractals/l-systems/>
 - * Look at the instructions and examples.
 - * Adjust the key parameters.
 - Once you've found a pattern you like, use [this R code](#) to produce a final PNG image. You can adjust the background color, the line color, and the PNG resolution (how many pixels it has as its width/height).
 - * <https://tinyurl.com/LSYSTURTLE>
 - You could also use https://chadworley.github.io/Lsys_string_gen.html along with Turbo Turtle (Scratch)

You can see an exemplar here: https://chadworley.github.io/ml2026/Lsys/slides_Lsys_exemplar.html